

CLAIMS

WHAT IS CLAIMED IS:

1        1. A display module for a handheld computer, comprising;  
2              a display housing;  
3              a display incorporated into the display housing;  
4              an interface housing;  
5              an interface configured to be removably coupled to the  
6 handheld computer, the interface being incorporated into the interface  
7 housing; and,  
8              a memory.

1        2. The display module for a handheld computer of claim 1, wherein  
2              the memory includes Secure Digital (SD) memory.

1        3. The display module for a handheld computer of claim 1, wherein  
2              the interface is configured to be coupled to a slot in a housing of the  
3 handheld computer.

1        4. The display module for a handheld computer of claim 1, wherein  
2              the interface is configured to exchange data with a host device through  
3 electrical interconnects.

1        5. The display module for a handheld computer of claim 1, wherein  
2              the interface is configured to exchange data with a host device through an  
3 optical data link.

1       6. The display module for a handheld computer of claim 1, wherein  
2 the display module is powered by an internal battery.

1       7. The display module for a handheld computer of claim 1, wherein  
2 the display module is configured to receive power from a host device  
3 through the interface.

1       8. The display module for a handheld computer of claim 1, wherein  
2 the interface housing is foldably connected to the display housing.

1       9. The display module for a handheld computer of claim 8, wherein  
2 the display module is configured to be received by a host device when the  
3 interface housing is folded behind the display housing.

1       10. The display module for a handheld computer of claim 8, wherein  
2 the host device is selected from the group consisting of: mobile telephone,  
3 game, toy, e-book, electronic projection device, camera, key fob or pendant,  
4 MP3 player, control for home, control for vehicle, remote control for  
5 entertainment system, digital sports assistant, pedometer, information  
6 technology equipment, and watch.

1       11. The display module for a handheld computer of claim 8, wherein  
2 the host device is a wearable device.

1       12. The display module for a handheld computer of claim 1, wherein  
2 the display module further comprises a processing circuit selected from the  
3 group consisting of: ASIC, microcontroller, microprocessor.

1       13. The display module for a handheld computer of claim 12,  
2 further comprising at least one input/output device.

1        14. The display module for a handheld computer of claim 13,  
2 wherein the at least one input/output device is selected from the group  
3 consisting of: touch screens, buttons, dials, switches, and electro-audio  
4 transducers.

1        15. The display module for a handheld computer of claim 6, wherein  
2 the display module operates to display information when not coupled to a  
3 host device.

1        16. The display module for a handheld computer of claim 1, wherein  
2 the display module is configured to be coupled to a host device, the host  
3 device being selected from the group consisting of: mobile telephone, game,  
4 toy, e-book, electronic projection device, camera, key fob or pendant, MP3  
5 player, control for home, control for vehicle, remote control for entertainment  
6 system, digital sports assistant, pedometer, information technology  
7 equipment, and watch.

1        17. The display module for a handheld computer of claim 1, further  
2 comprising a display controller for controlling the display.

1        18. The display module for a handheld computer of claim 1, wherein  
2 the memory is configured to store and retain data customized to the user.

1        19. An accessory module for a portable electronic device  
2 comprising:  
3              an accessory housing;  
4              an interface for making electrical connection between the  
5 accessory module and a host device; and,  
6              an interface housing for supporting the interface,

7           wherein, the interface housing is hinged to the accessory  
8        housing such that the interface housing can fold behind the accessory  
9        housing and the interface housing can unfold to extend for insertion into an  
10      interface slot in a portable electronic device.

1           20.   The accessory module for a portable electronic device of claim  
2        19, wherein the display module is configured when folded to be received  
3        within a cavity provided within a host device, the host device being selected  
4        from the group consisting of: mobile telephone, game, toy, e-book,  
5        electronic projection device, camera, key fob or pendant, MP3 player, control  
6        for home, control for vehicle, remote control for entertainment system,  
7        digital sports assistant, pedometer, information technology equipment, and  
8        watch.

1           21.   The accessory module for a portable electronic device of claim  
2        19, wherein the hinge includes a plurality of detents.

1           22.   The accessory module for a portable electronic device of claim  
2        19, wherein the interface housing is configured to fit a secure digital (SD)  
3        slot.

1           23.   A portable display module for coupling to a host device,  
2        comprising:  
3                 a display housing;  
4                 a display coupled to the display housing;  
5                 an interface housing;  
6                 an interface configured to be removably coupled to the host  
7        device, the interface being incorporated into the interface housing; and,  
8                 a memory.

1           24. The portable display module of claim 23, wherein the memory  
2 includes Secure Digital (SD) memory.

1           25. The portable display module of claim 23, wherein the interface  
2 is configured to be coupled to a slot in a housing of the handheld computer.

1           26. The portable display module of claim 23, wherein the interface  
2 is configured to exchange data with a host device through electrical  
3 interconnects.

1           27. The portable display module of claim 23, wherein the interface  
2 is configured to exchange data with a host device through an optical data  
3 link.

1           28. The portable display module of claim 23, wherein the display  
2 module is powered by an internal battery.

1           29. The portable display module of claim 23, wherein the display  
2 module is configured to receive power from a host device through the  
3 interface.

1           30. The portable display module of claim 23, wherein the interface  
2 housing is foldably connected to the display housing.

1           31. The portable display module of claim 30, wherein the display  
2 module is configured to be received by a host device when the interface  
3 housing is folded behind the display housing.

1           32. The portable display module of claim 30, wherein the host  
2 device is selected from the group consisting of: mobile telephone, game,  
3 toy, e-book, electronic projection device, camera, key fob or pendant, MP3

4 player, control for home, control for vehicle, remote control for entertainment  
5 system, digital sports assistant, pedometer, information technology  
6 equipment, and watch.

1 33. The portable display module of claim 30, wherein the host  
2 device is a wearable device.

1 34. The portable display module of claim 23, wherein the display  
2 module further comprises a processing circuit selected from the group  
3 consisting of: ASIC, microcontroller, microprocessor.

1 35. The portable display module of claim 34, further comprising at  
2 least one input/output device.

1 36. The display module for a handheld computer of claim 35,  
2 wherein the at least one input/output device is selected from the group  
3 consisting of: touch screens, buttons, dials, switches, and electro-audio  
4 transducers.

1 37. The portable display of claim 28, wherein the display module  
2 operates to display information when not coupled to a host device.

1 38. The portable display module of claim 23, wherein the display  
2 module is configured to be coupled to a host device, the host device being  
3 selected from the group consisting of: mobile telephone, game, toy, e-book,  
4 electronic projection device, camera, key fob/pendant, MP3 player, control  
5 for home, control for vehicle, remote control for entertainment system,  
6 digital sports assistant, pedometer, information technology equipment, and  
7 watch.

1       39. The portable display module of claim 23, further comprising a  
2       display controller for controlling the display.

1       40. The portable display module of claim 23, wherein the memory is  
2       configured to store and retain data customized to the user.